

**FIG. 1.**

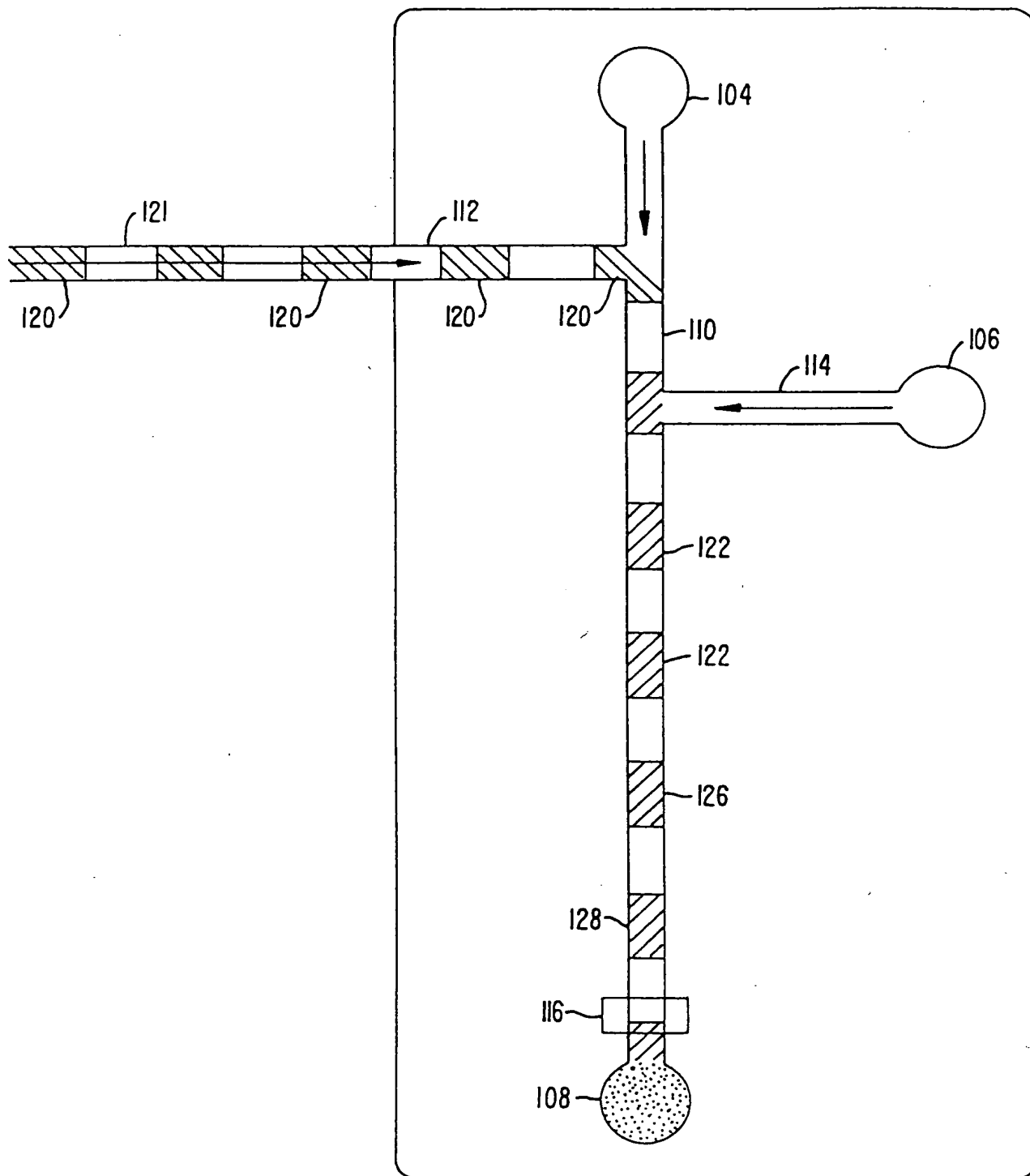


FIG. 2A.

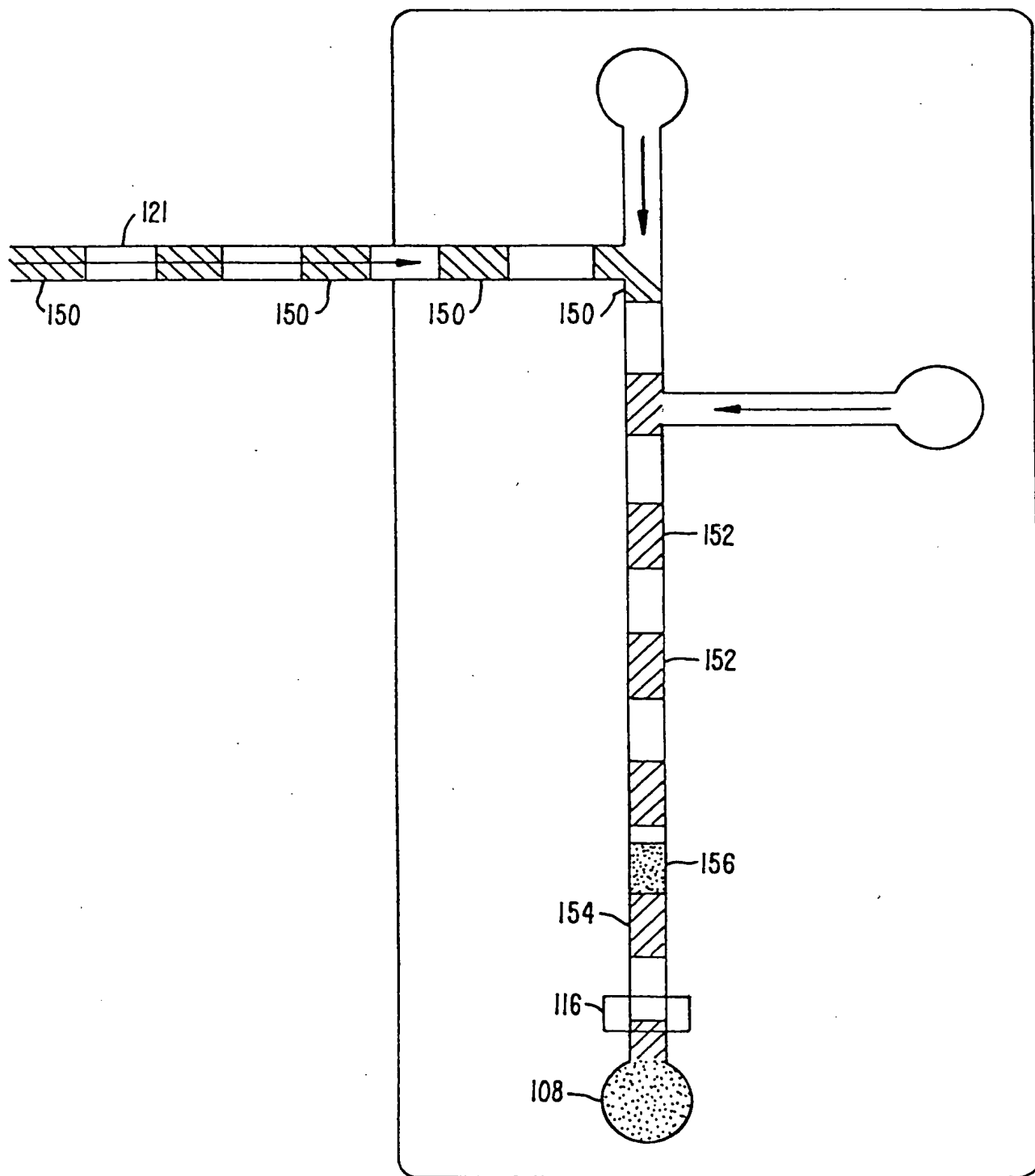
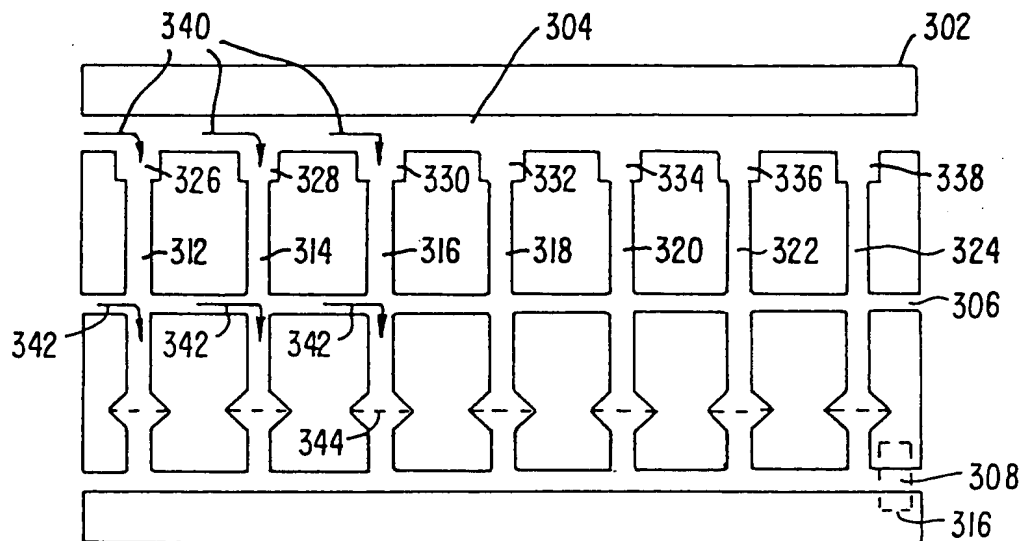


FIG. 2B.

300



**FIG. 3.**

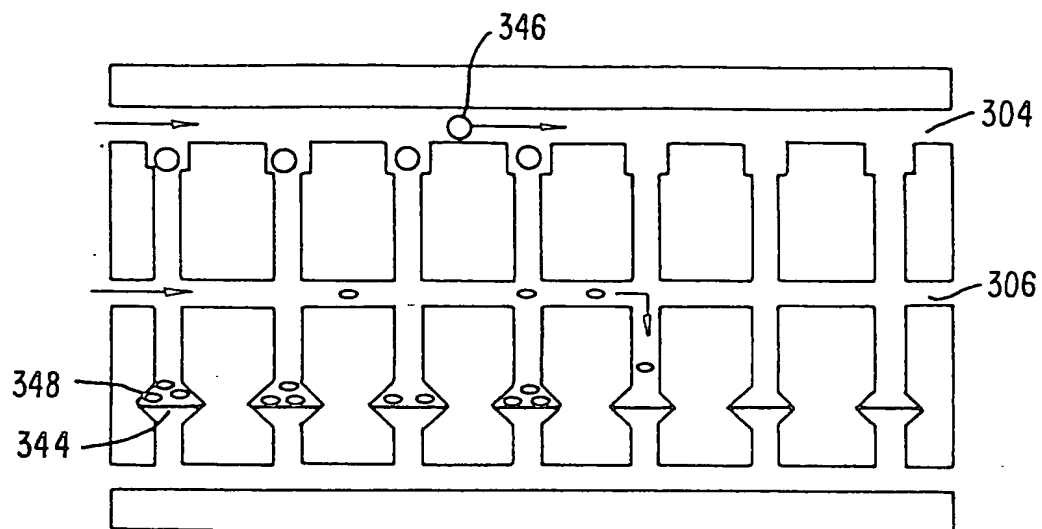


FIG. 4A.

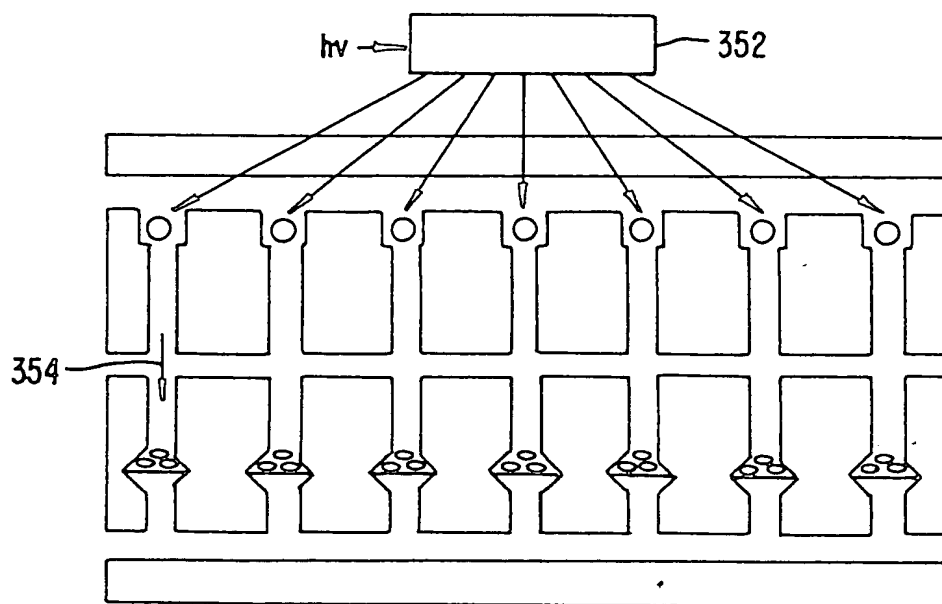


FIG. 4B.

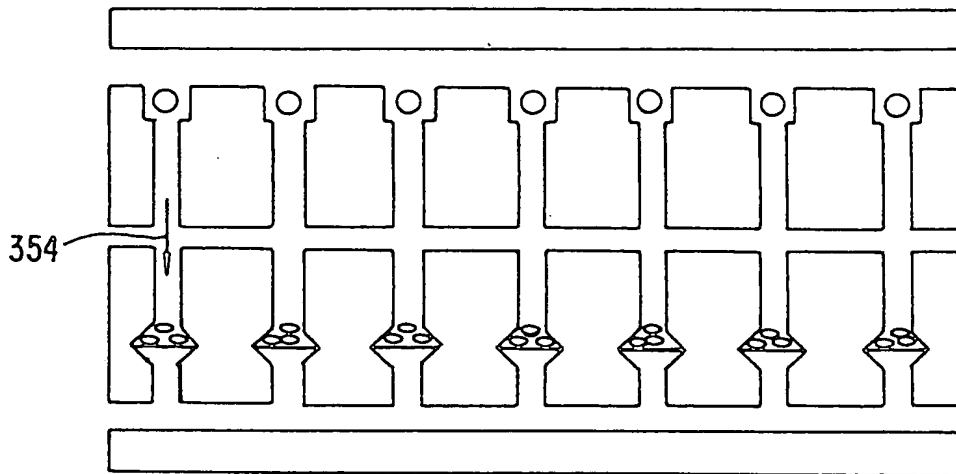


FIG. 4C.

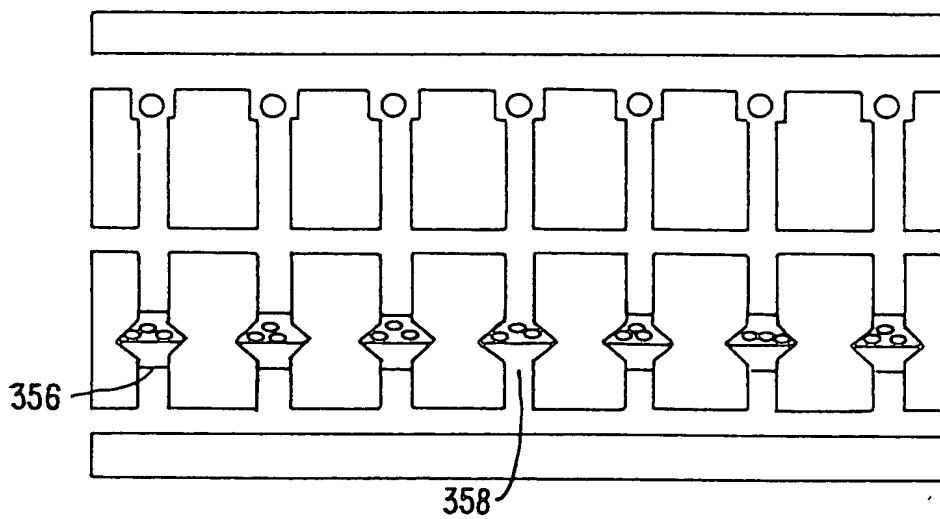


FIG. 4D.

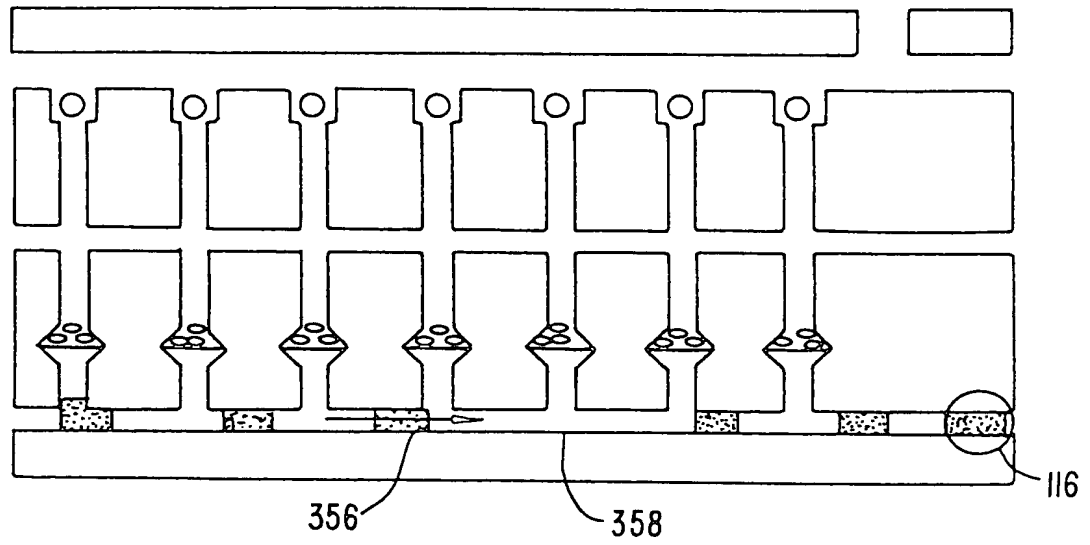


FIG. 4E.

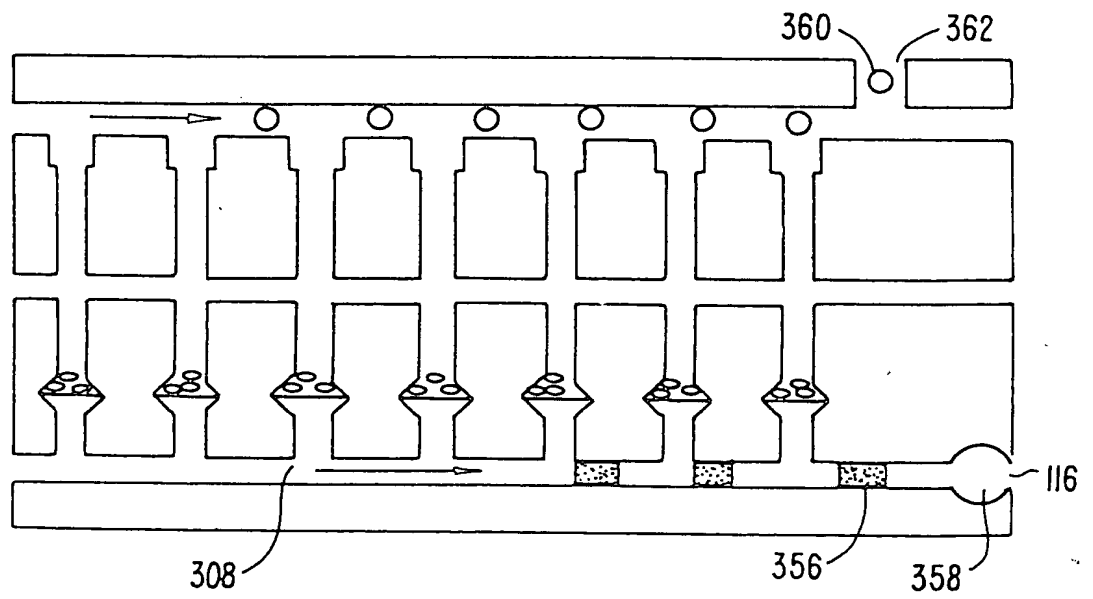


FIG. 4F.

**FIG. 5.**



FIG. 6A

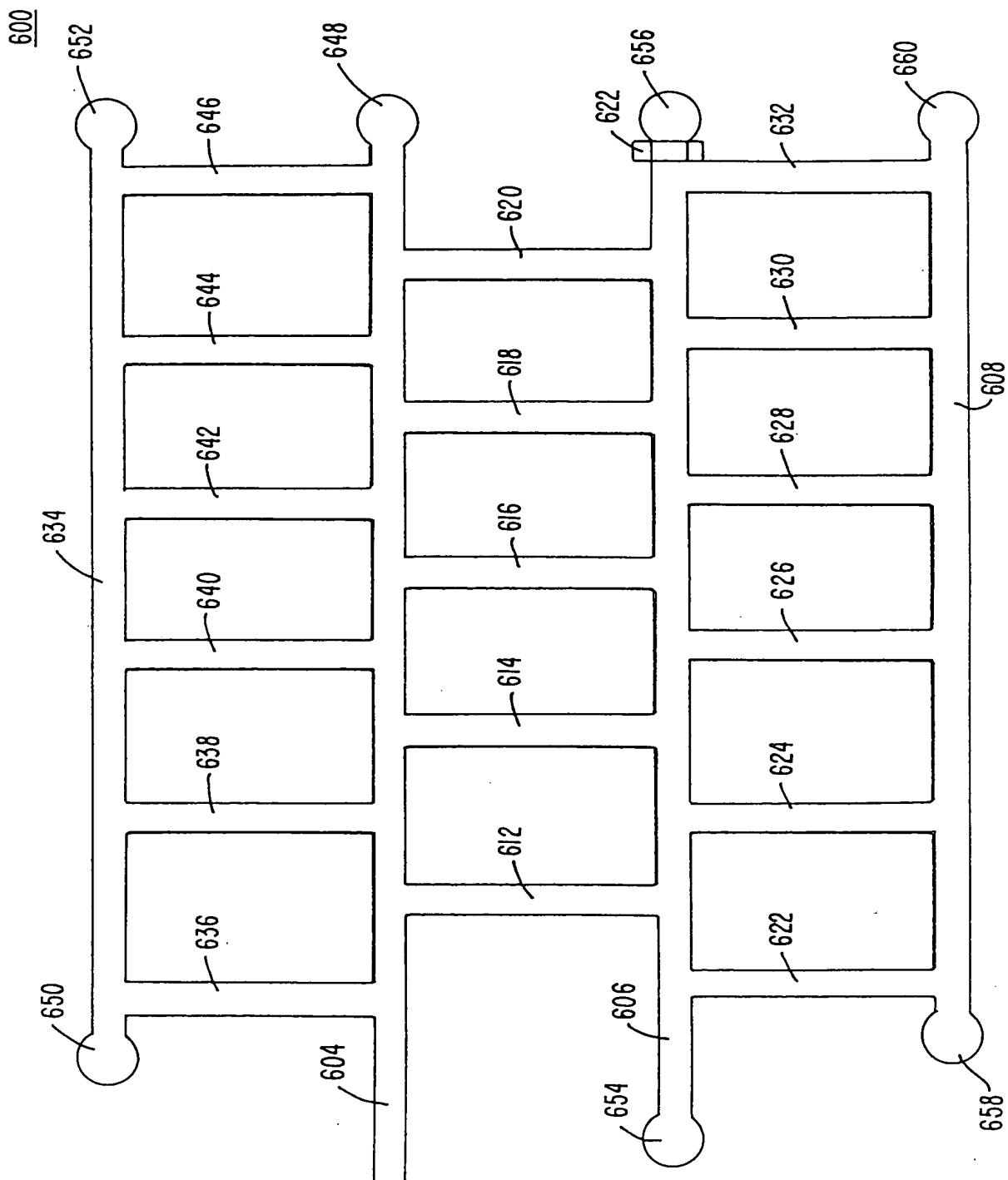


FIG. 6A.

FIG. 6B

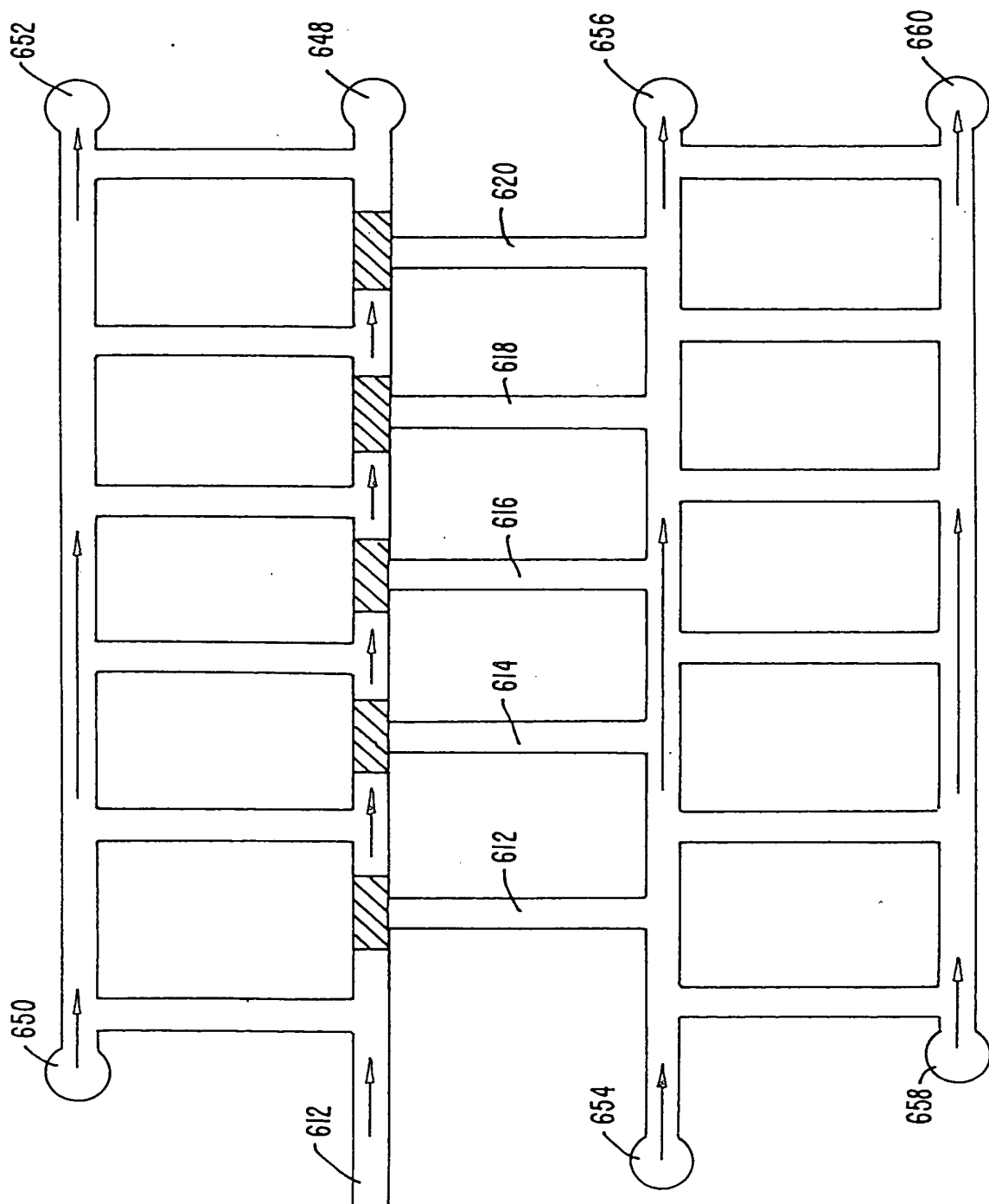


FIG. 6B.

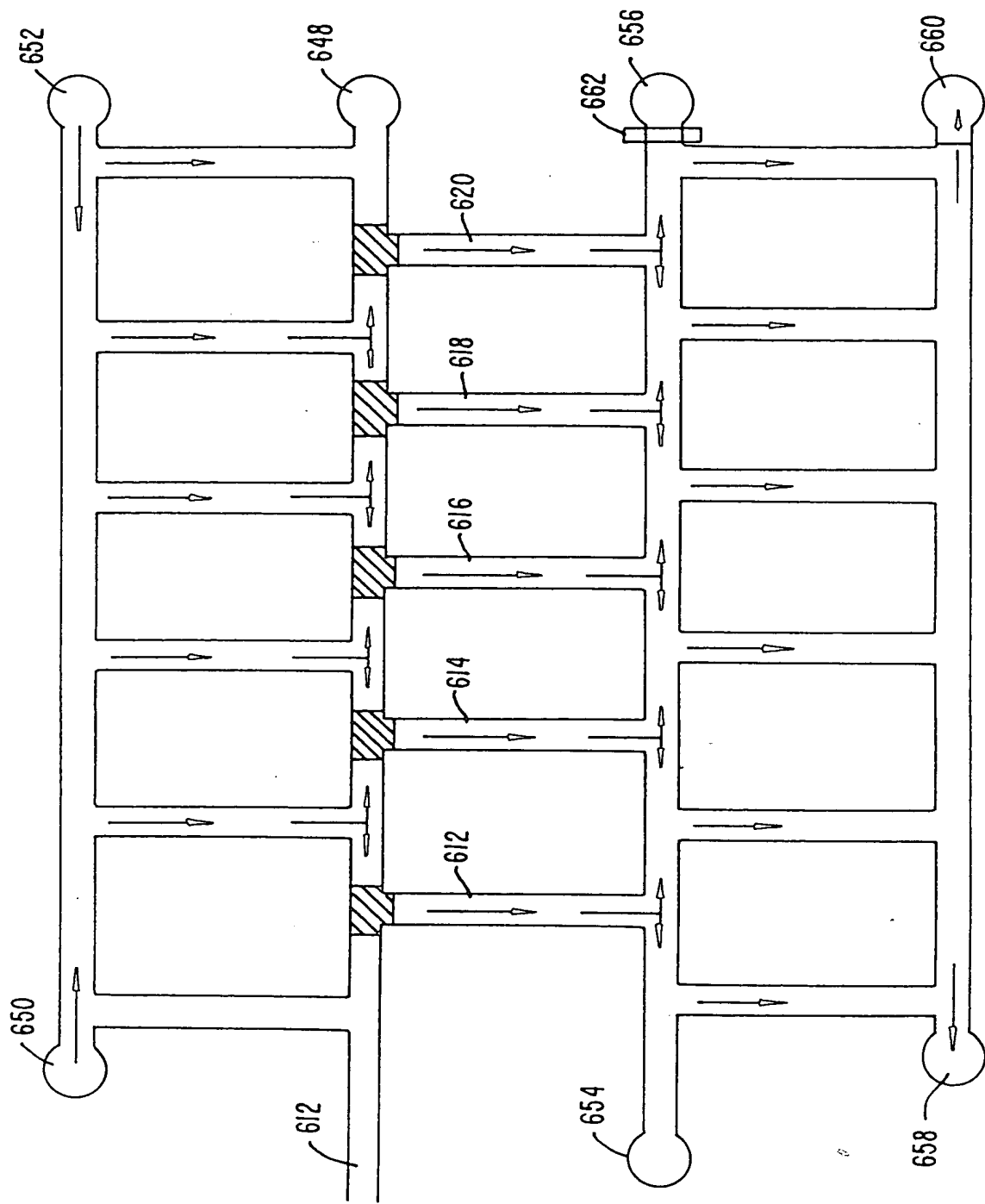


FIG. 6C.

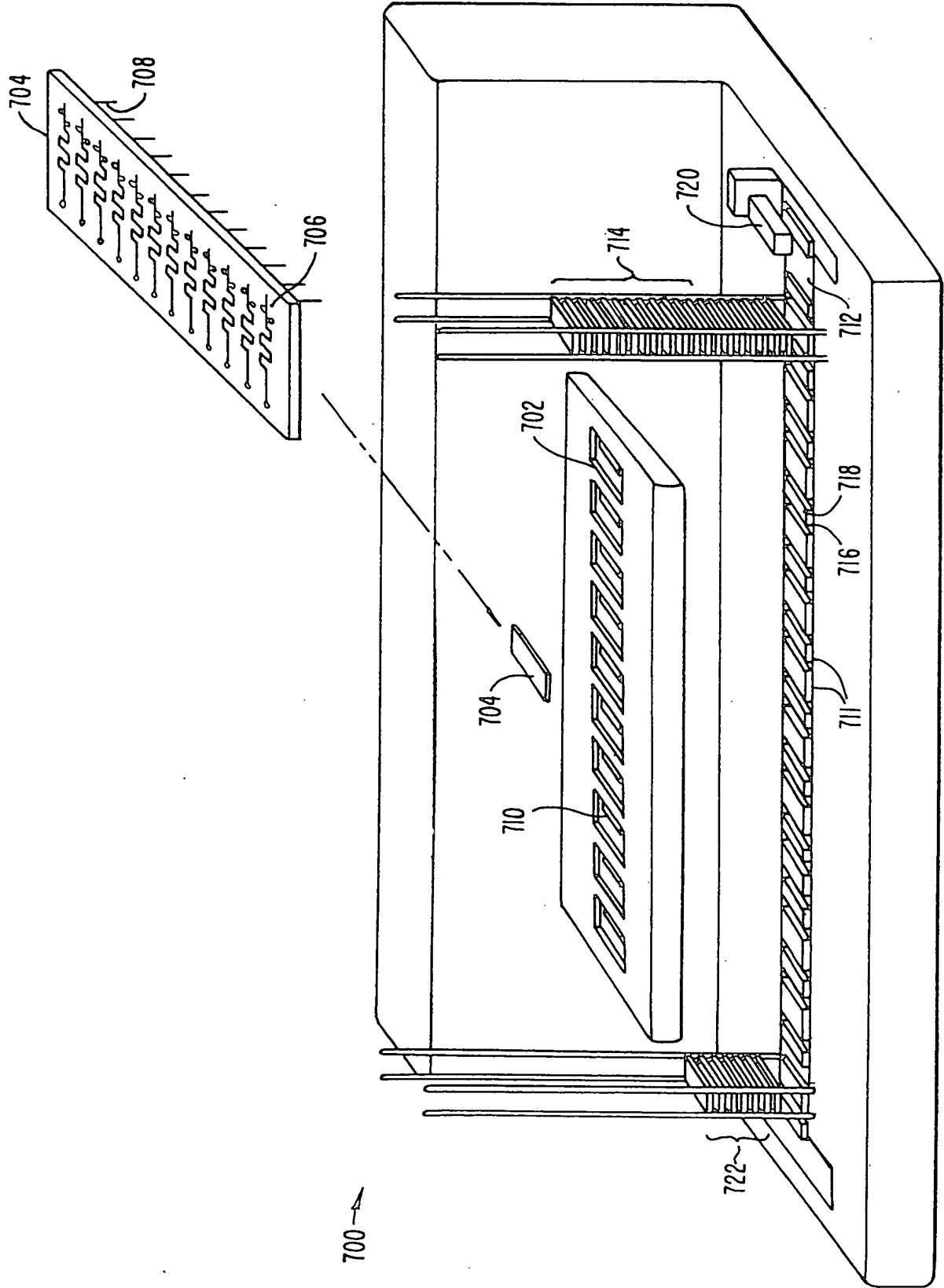


FIG. 7.

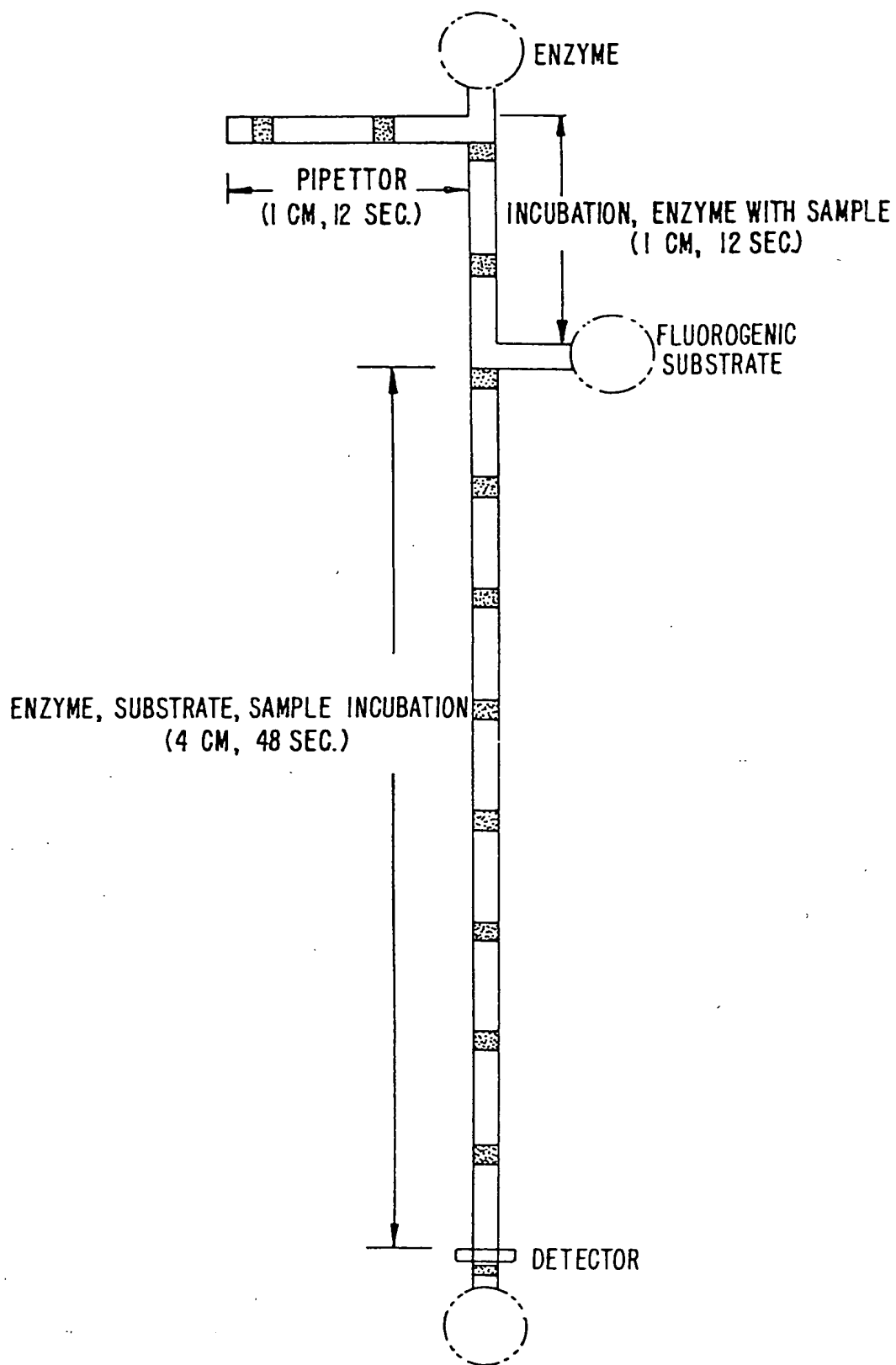
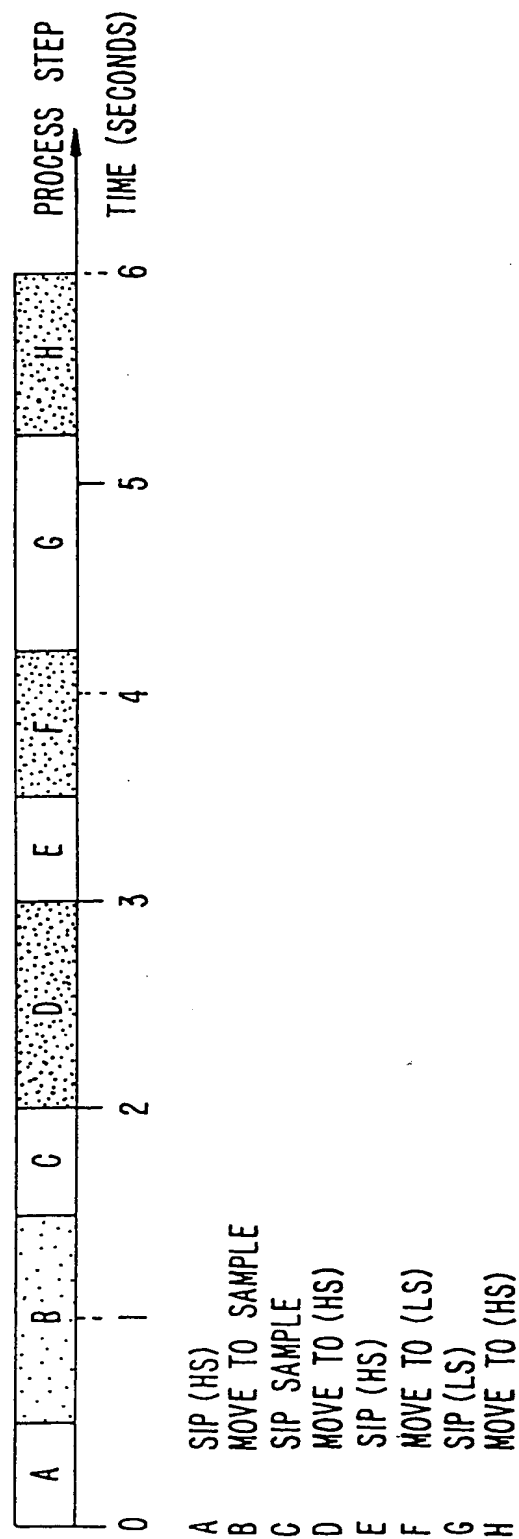


FIG. 8

The diagram illustrates the experimental cell setup. It consists of a central 'SUBJECT MATERIAL' layer, which is flanked by two 'SPACER' layers. The 'SUBJECT MATERIAL' has a thickness of 1 mm. The 'SPACER' layer on the left is 1 mm thick and contains '150 mm NaCl (HS)'. The 'SPACER' layer on the right is 2 mm thick and contains '5 mm BORATE BUFFER (LS)'. The total thickness of the cell is 4 mm. The components are labeled as follows:

- 150 mm NaCl (HS)
- 1 mm
- SUBJECT MATERIAL
- 1 mm
- 150 mm NaCl (HS)
- 1 mm
- 2 mm
- 5 mm BORATE BUFFER (LS)
- 2nd SPACER

### SAMPLE AQUISITION TIMING DIAGRAM



**FIG. 9**